

DESIGN REPORT
State Project No. 94-255
Pavement Preservation on I-95
Cities of New London, Groton and town of Waterford

TOWN(S): New London, Groton and Waterford

ROUTE: Interstate 95 and Frontage Roads

DISTRICT NO.: 2

FINAL MAINTENANCE RESPONSIBILITY: State of Connecticut

PROJECT LOCATION:

This project is located along Interstate 95 (I-95) NB and SB in the city of New London from mile marker 92.52, extending northerly to mile marker 93.46 on I-95 SB (0.94 miles) and into the city of Groton to mile marker 94.71 on I-95 NB (2.19 miles). Only the NB direction of the Gold Star Bridge will be included within these limits. This project will also include Frontage Roads (SR 624 EB, SR 623 WB, US 1 NB and SR 641 SB) from the town of Waterford extending northerly to the approach of the Gold Star Bridge.

PROJECT DESCRIPTION:

The purpose of this pavement preservation project is to enhance pavement performance and extend the service life of the existing pavement on this section of I-95. The proposed work on the mainline includes milling 3" off the existing pavement and placing 3" of bituminous concrete (HMA and PMA). Ramps and the Frontage roads will be milled 2" and then paved with 2" of bituminous concrete (PMA) from curb to curb. Milling 1.5" and placing 1.5" of bituminous concrete (PMA) will be performed on Bridge #s 03820, 02572, and 02864. Bridge #03819 (Gold Star Bridge NB) will be micro-milled 5/8" and then paved with 5/8" of Microsurfacing in two separate lifts. Expansion joints on the overpass bridges will also be replaced as needed. After paving operations are complete, any existing signal loop detectors will be replaced and new pavement markings will be applied.

EXCEPTIONS TO DESIGN STANDARDS: There are no design exceptions required for this project.

RIGHTS-OF-WAY: There is no ROW involvement for this project.

UTILITIES: There is no utility involvement for this project.

SALVAGE: There will be no items salvaged for this project.

ENVIRONMENTAL PERMITS: A Coastal Area Management Consistency Review has determined that the project is consistent with the Coastal Goals and Policies as defined in CGS section 22a-92. No environmental permits are required for this project.

1. Site Access – The project will present no unusual site access concern.

2. Traffic Management (Maintenance and Protection of Traffic).

Traffic will be maintained, in accordance with Section 1.08 "Prosecution and Progress". Traffic in both directions along I-95 will be allowed to be reduced to one lane at the given night time hours to allow for construction activities. The construction of the pier 9 joint on Bridge No. 03819 (Gold Star Memorial Bridge) involves the reconstruction of concrete headers that cannot be completed during a typical night time construction operation hence stage construction shall be implemented during weekend periods. Additional lane restrictions are anticipated due to an adjacent signal upgrade project that begins in the same construction season in 2015.

3. Water Handling – No water handling requirements are anticipated for this project.

4. Specialized Equipment and/or Construction Method:

No specialized equipment/or construction method is needed for this project.

Prepared by: _____

Arsenault, Joseph D
Project Engineer

Date: 10/15/14

Submitted by: _____

Mathew R. Vail, P.E.
Project Manager

Date: 10/15/14